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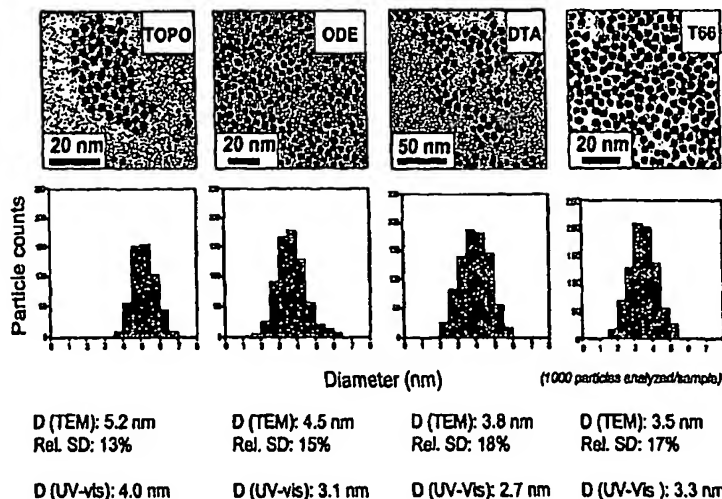
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- (71) Applicant (for all designated States except US):
WILLIAM MARSH RICE UNIVERSITY [US/US];
6100 Main Street, Houston, TX 77005 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ALKHAWALDEH,**
Ammar, S. [JO/US]; Intel Corporation, Logic Technol-
ogy Development, RA3-410, 2501 NW 229th Avenue,
Hillsboro, OR 97124 (US). **PASQUALI, Matteo [IT/US];**
Department of Chemical Engineering, MS-362, Rice
University, P.O. Box 1892, Houston, TX 77251-1892
- (74) Agents: **WESTBY, Timothy, S. et al.; Conley Rose, P.C.,**
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(54) Title: **NEW SOLVENTS AND NEW METHOD FOR THE SYNTHESIS OF CDSE SEMICONDUCTOR NANOCRYSTALS**



(57) Abstract: New methods for the synthesis of nanocrystals/quantum dots are disclosed. The methods comprise use of reasonably-priced and commercially available heat transfer fluids (such as Dowtherm® A) as solvents to synthesize CdSe nanocrystals. Separation of nucleation and growth is achieved by quenching the reaction solution with relatively cold (room temperature) solvent to lower the solution temperature. Quenching may be followed by raising the solution temperature, to allow controlled growth to take place.

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